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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
(B&W No. 004979-00045)

Applicant: Corey  
Serial No.: 10/821,621  
Filing Date: April 9, 2004  
Group: 1626  
Conf. No.: 8936  
Title: Simple Stereocontrolled Synthesis of Salinosporamide A  
\*\*\*\*\*

CERTIFICATE OF EXPRESS MAIL

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Express Mail Receipt No. EV436814100US  
Date of Deposit: July 15, 2004

I hereby state that the following:

- ☒ Information Disclosure Statement
- ☒ PTO-1449 Form
- ☒ Non-US Patent Art as Cited
- ☒ Return Postcard

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10, on the date indicated above and is addressed to Mail Stop Provisional Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Brigid Laffey

July 15, 2004  
Dated

Brigid Marie Laffey  
Signature of person mailing above-identified papers



Docket No. 004979-00045

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

<b>APPLICANT:</b>	Corey	<b>EXAMINER:</b>	Unknown
<b>SERIAL NO.:</b>	10/821,621	<b>GROUP:</b>	1626
<b>FILED:</b>	09 April 2004	<b>CONF. NO.:</b>	8936
<b>FOR:</b>	Simple Stereocontrolled Synthesis of Salinosporamide A		

**VIA EXPRESS MAIL - EV436814100US**

COMMISSIONER FOR PATENTS  
P.O. BOX 1450  
ALEXANDRIA, VA 22313-1450

Sir:

**INFORMATION DISCLOSURE STATEMENT**

In accordance with the provisions of 37 C.F.R. §§1.56 and 1.97, Applicant herewith submits the publications and/or patents shown on the attached form PTO-1449, for consideration by the Examiner in connection with the examination of the above-identified patent application.

**REMARKS**

In accordance with the provisions of 37 C.F.R. §1.97, this statement is being filed within three (3) months of the **Filing Date** or before the mailing date of the **First Office Action** on the merits.

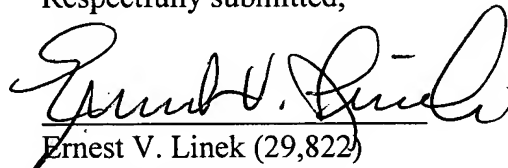
It is respectfully requested that each of the documents shown on the attached form(s) PTO-1449 be made of record in this application. Copies of documents that are not U.S. Patents or U.S. Patent Publications are enclosed herewith.

Early examination and allowance of the present application are respectfully solicited.

**FEE AUTHORIZATION**

Should any fee associated with the submission of this paper not be attached hereto as a check, the Commissioner is authorized to charge the missing fee to our Deposit Account, No. 19-0733. Any overpayments should be credited to the same Deposit Account.

Respectfully submitted,

A handwritten signature in dark ink, appearing to read "Ernest V. Linek", is written over a horizontal line.

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Date: July 15, 2004

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

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of

3

**Complete if Known**

Application Number	10/821,621
Filing Date	09 April 2004
First Named Inventor	Elias J. Corey
Art Unit	1626
Examiner Name	Not Yet Assigned
Attorney Docket Number	004979-00045

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
		US-2003-0157695A1	08/21/03	Fenical et al.	
		US- 6,645,999	11/11/03	Schreiber et al.	
		US- 6,566,553	05/20/03	Soucy et al.	
		US- 6,458,825	10/01/02	Fenteany et al.	
		US- 6,335,358	01/01/02	Fenteany et al.	
		US- 6,294,560	09/25/01	Soucy et al.	
		US- 6,214,862	04/10/01	Fenteany et al.	
		US- 6,147,223	11/14/00	Fenteany et al.	
		US- 6,133,308	10/17/00	Soucy et al.	
		US- 5,869,675	02/09/99	Omura et al.	
		US- 5,756,764	05/26/98	Fenteany et al.	
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**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
		WO 96/32105	10/17/1996	Schreiber et al.		

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Sheet 2 of 3

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Application Number	10/821,621
Filing Date	09 April 2004
First Named Inventor	Elias J. Corey
Group Art Unit	1626
Examiner Name	Not Yet Assigned
Attorney Docket Number	004979-00045

**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Feeling, R.H.; Buchanan, G.O.; Mincer, T.J.; Kauffman, C.A.; Jensen, P.R.; Fenical, W., Angew. Chem. Int. Ed., Salinosporamide A: A highly Cytotoxic Proteasome Inhibitor from a Novel Microbial Source, a Marine Bacterium of the New Genus Salinospora, 2003, 42, 355-357	
		Corey, E.J.; Li, Wei-Dong., Z. Total Synthesis and Biological Activity of Lactacystin, Omuralide and Analogs, Chem. Pharm. Bull., 1999, 47, 1-10	
		Corey, E.J., Reichard, G.A.; Kania, R., Studies on the Total Synthesis of Lactacystin. An improved Aldol Coupling reaction and a $\beta$ -Lactone Intermediate in Thiol Ester Formation, Tetrahedron Lett., 1993, Vol. 34, No. 44, 6977-6980	
		Corey, E. J.; Reichard, G. A., Total Synthesis of Lactacystin, J. Am. Chem. Soc., 1992, 114, 10677-10678	
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		Wilson, Elizabeth, K., Plumbing the Ocean Depths for Drugs, Chemical & Engineering News, Volume 81, No. 3, pp. 37-38 (2003)	
		Frank, S. A.; Mergott, D. J., Roush, W. R., The Vinylogous Intramolecular Morita - Baylis - Hillman Reaction: Synthesis of Functionalized Cyclopentenones and Cyclohexenones with Trialkylphosphines as Nucleophilic Catalysts, J. Am. Chem. Soc., 2002, 124, 2404-2405	
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Examiner  
SignatureDate  
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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Sheet 3 of 3

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Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Aggarwal, V. K., Emme, I., Fulford, S. Y., Correlation between pK <sub>a</sub> and Reactivity of Quinuclidine-Based Catalysts in the Baylis-Hillman Reaction: Discovery of Quinuclidine as Optimum Catalyst Leading to Substantial Enhancement of Scope, J. Org. Chem., 2003, 68, 692-700	
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		Corey, E. J., Li, W., Nagamitsu, T., An Efficient and Concise Enantioselective Total Synthesis of lactacystin. Angew. Chem. Int. Ed., 1998, 37, 1676-1679	
		Corey, E.J., and Wei-Dong, Z., Total Synthesis and Biological Activity of Lactacystin, Omuralide and Analogs, Chem. Pharm. Bull., 1999, 47, 1-10	

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